

# Iowa Influenza Surveillance Network (IISN)

## Influenza-like Illness (ILI) and Other Respiratory Viruses

## **Monthly Activity Report**

#### August 2016

All data presented in this report are provisional and may change as additional reports are received



## **lowa statewide activity summary:**

Influenza activity in Iowa remains low. During this reporting month, one influenza A (H3) was detected at SHL. Other respiratory viruses reported in this period include: 69 cases of rhinovirus/enterovirus, 17 adenovirus, two para influenza 2, 27 para influenza 3, two para influenza 4, six RSV and one hMPV. No new outbreaks or deaths due to influenza were reported during this reporting month.

\*\*\*Note that this data is included in the 2015-2016 influenza season (10/4/15-10/1/16) and the weekly reports will begin again in October with the start of the 2016-2017 season.\*\*\*

## National activity summary - (CDC):

Condensed reports over the summer months are available at www.cdc.gov/flu/weekly/

## **International activity summary - (WHO):**

Globally, influenza activity has varied in South American and has increased steadily in South Africa and across Oceania in the last few weeks. Detailed information can be found online at

www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/. It was last updated 09/05/2016.

#### Laboratory surveillance program:

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

Table 1: Ir	Table 1: Influenza A viruses detected by SHL by age group							
	AUGUST 2016				YEAR TO DATE (10/4/15 – PRESENT WEEK)			
	Flu A				Flu A			
Age Group	A(H1N1) pdm09	A(H3)	Subtype Pending	Not subtyped	A(H1N1) pdm09	A(H3)	Subtype Pending	Not subtyped
0-4	0(0%)	0(0%)	0(0%)	0(0%)	36(13%)	0(0%)	0(0%)	0(0%)
5-17	0(0%)	1(100%)	0(0%)	0(0%)	43(16%)	3(8%)	0(0%)	1(14%)
18-24	0(0%)	0(0%)	0(0%)	0(0%)	35(13%)	10(26%)	0(0%)	2(29%)
25-49	0(0%)	0(0%)	0(0%)	0(0%)	77(29%)	4(11%)	0(0%)	1(14%)
50-64	0(0%)	0(0%)	0(0%)	0(0%)	53(20%)	11(29%)	0(0%)	3(43%)
>64	0(0%)	0(0%)	0(0%)	0(0%)	27(10%)	10(26%)	0(0%)	0(0%)
Total	0	1	0	0	271	38	0	7

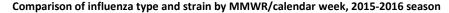
<sup>\*</sup>Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information Only cases of Iowa residents are included

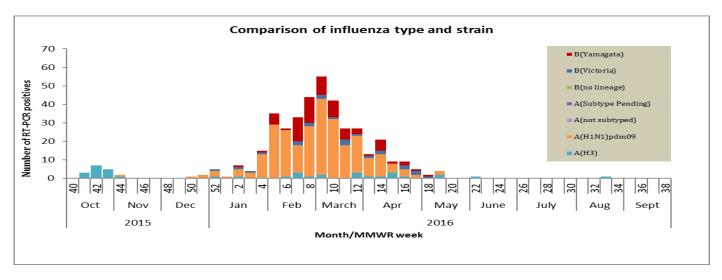
<sup>&</sup>quot;Not subtyped" column is due to weak detections. This can be due to poor collection, timing of collection or stage of infection

Table 2: In	Table 2: Influenza B viruses detected by SHL by age group						
		AUGUST 2016		YEAR TO DATE (10/4/15 – PRESENT WEEK)			
Age	Flu B			Flu B			
Group	Victoria Lineage	Yamagata Lineage	Lineage Pending	Victoria Lineage	Yamagata Lineage	Lineage Pending	
0-4	0(0%)	0(0%)	0(0%)	5(22%)	8(11%)	0(0%)	
5-17	0(0%)	0(0%)	0(0%)	8(35%)	22(29%)	0(0%)	
18-24	0(0%)	0(0%)	0(0%)	3(13%)	2(3%)	0(0%)	
25-49	0(0%)	0(0%)	0(0%)	3(13%)	16(21%)	0(0%)	
50-64	0(0%)	0(0%)	0(0%)	1(4%)	12(16%)	0(0%)	
>64	0(0%)	0(0%)	0(0%)	3(13%)	16(21%)	0(0%)	
Total	0	0	0	23	76	0	
*Counts of thre	Country of three or loss are comptimes suppressed to protect confidentiality. Note that country may not add up to the total due to missing are information.						

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Only cases of Iowa residents are included



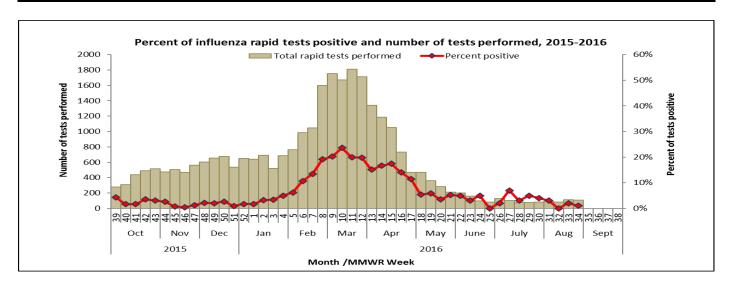


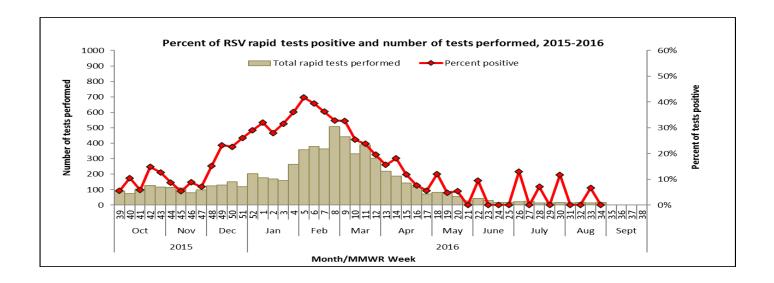
## Rapid influenza and RSV test surveillance: August 2016

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

REGION*		RAPID	ANTIGEN INFLUEN	RAPID ANTIGEN RSV TESTS				
REGION	Tested	Flu A	Flu B	Undefined	% Positive	Tested	Positive	% Positive
Region 1	77	1	1	0	3	18	0	0
Region 2	7	1	0	0	14	2	0	0
Region 3	4	0	0	0	0	4	0	0
Region 4	20	0	0	0	0	8	0	0
Region 5	49	0	0	0	0	6	0	0
Region 6	230	1	2	0	1	25	1	4
Total	387	3	3	0	2	63	1	2

\*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright; Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne: Region 6- Benton, Black Hawk, Buchanan, Cedar, Clavton, Clinton, Delaware, Dubuque, Jowa, Jackson, Johnson, Jones, Linn, Scott.





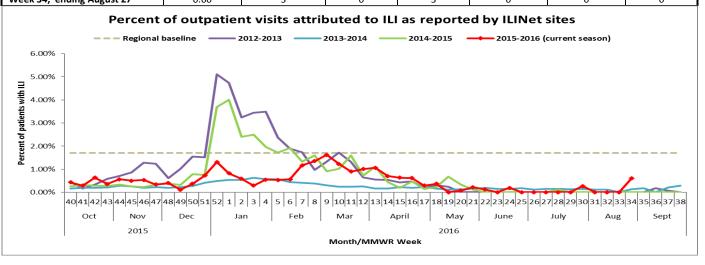
## Non-influenza respiratory virus:

Viruses	AUGUST 2016	CUMULATIVE (10/4/15 – PRESENT WEEK)
Adenovirus	17	529
Parainfluenza Virus Type 1	0	174
Parainfluenza Virus Type 2	2	7
Parainfluenza Virus Type 3	27	153
Parainfluenza Virus Type 4	2	72
Rhinovirus/Enterovirus	69	1414
Respiratory syncytial virus (RSV)	6	722
Human metapneumovirus (hMPV)	1	379
Total	124	3450

## Outpatient health care provider surveillance program (ILINet):

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of lowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Scott Seltrecht at 515-281-4985 or <a href="Scott.Seltrecht@idph.iowa.gov">Scott.Seltrecht@idph.iowa.gov</a> for more information.

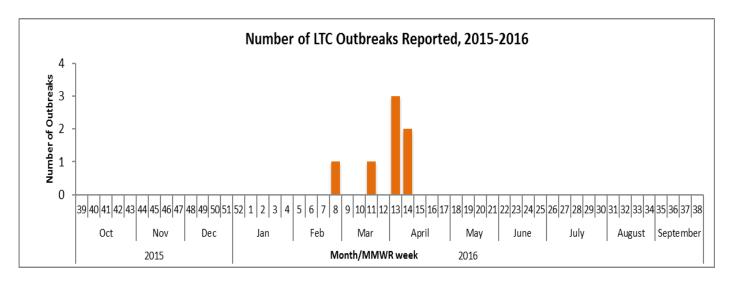
Table 5: Outpatient visits for influenza-like illness (ILI)							
Week	%ILI	Total ILI	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64
Week 31, ending August 6	0.00	0	0	0	0	0	0
Week 32, ending August 13	0.00	0	0	0	0	0	0
Week 33, ending August 20	0.00	0	0	0	0	0	0
Week 34 anding August 27	0.60	3	Λ	3	0	0	0



## **Long-term Care Outbreaks**

REGION*	AUGUST 2016	CUMULATIVE (10/4/15 – PRESENT WEEK)
Region 1 (Central)	0	2
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	2
Region 5 (SE)	0	2
Region 6 (Eastern)	0	1
Total	0	7

\*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright, Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Adudbon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.



## Other resources:

#### Vaccine:

Influenza vaccine recommendation: <a href="http://idph.iowa.gov/immtb/immunization/vaccine">http://idph.iowa.gov/immtb/immunization/vaccine</a>

CDC vaccine information: <a href="https://www.cdc.gov/flu/faq/flu-vaccine-types.htm">www.cdc.gov/flu/faq/flu-vaccine-types.htm</a>

Vaccine finder: http://vaccinefinder.org/

#### Neighboring states' influenza information:

Illinois: www.idph.state.il.us/flu/surveillance.htm

Minnesota: www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: <a href="http://doh.sd.gov/diseases/infectious/flu/">http://doh.sd.gov/diseases/infectious/flu/</a> Wisconsin: <a href="http://doh.sd.gov/influenza/index.htm">www.dhs.wisconsin.gov/influenza/index.htm</a>